



eHealth
week

11 - 13 MAY 2015
RIGA, LATVIA

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EU2015 LV



Ministry of Health
Republic of Latvia

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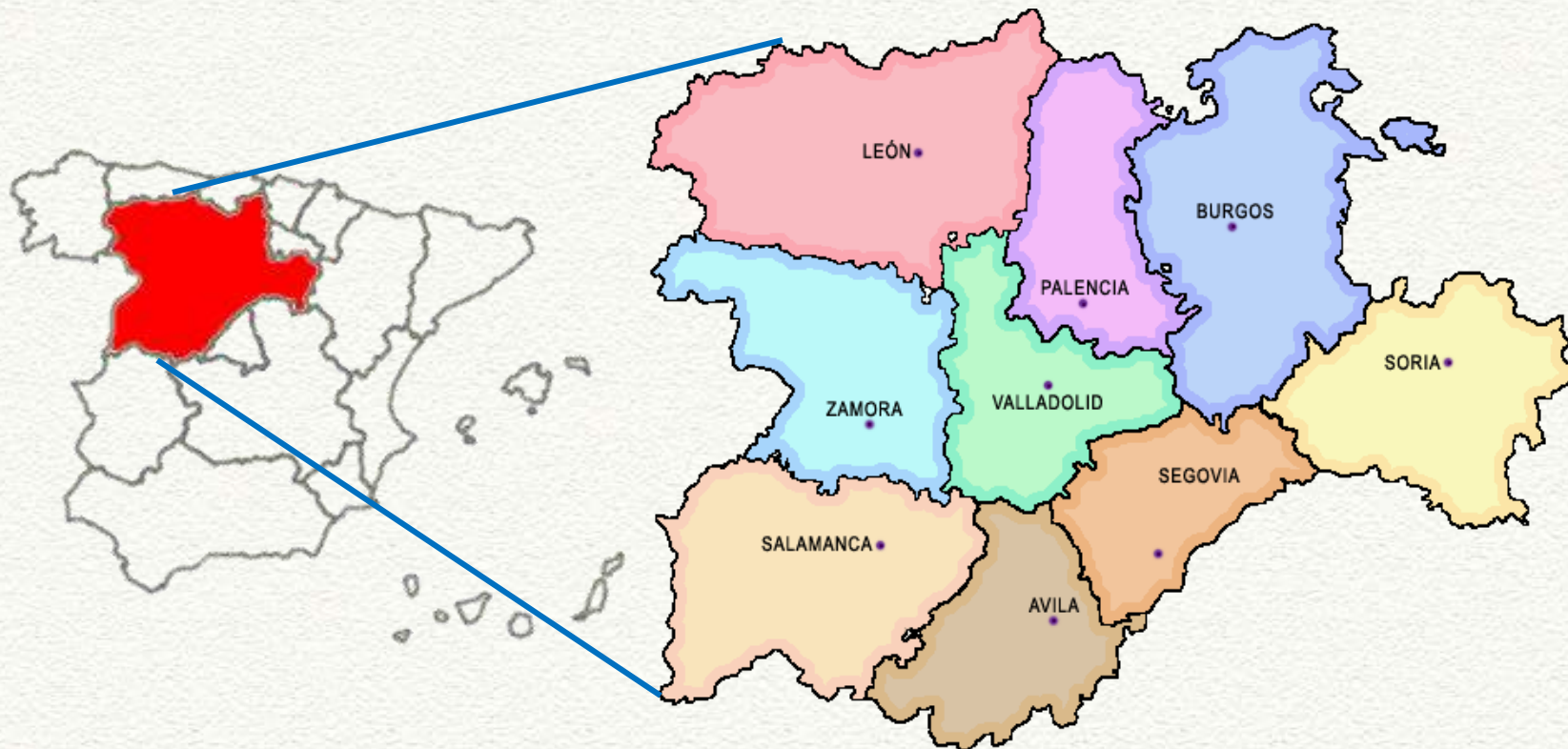
Junta de
Castilla y León



**Castilla y León: A Region making IT decisions.
EMRAM as a cohesion model**

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Castilla y León Region



Facts & Figures

Area: 94.226 Km²
Population: 2.563.521
Population Density: 27,2 / Km²
Rural Area Density: 15 / Km²
Local Governments < 1.000 inhabitants: 88%
Ageing : 22,6 % >64 years old (16,9% Spain)
Life Expectancy : 82,82 years

Region

11 Health Areas
14 Hospitals
247 Primary Care Centers
3.649 Local Surgeries
140 Emergency Mobile Units

Healthcare Facilities

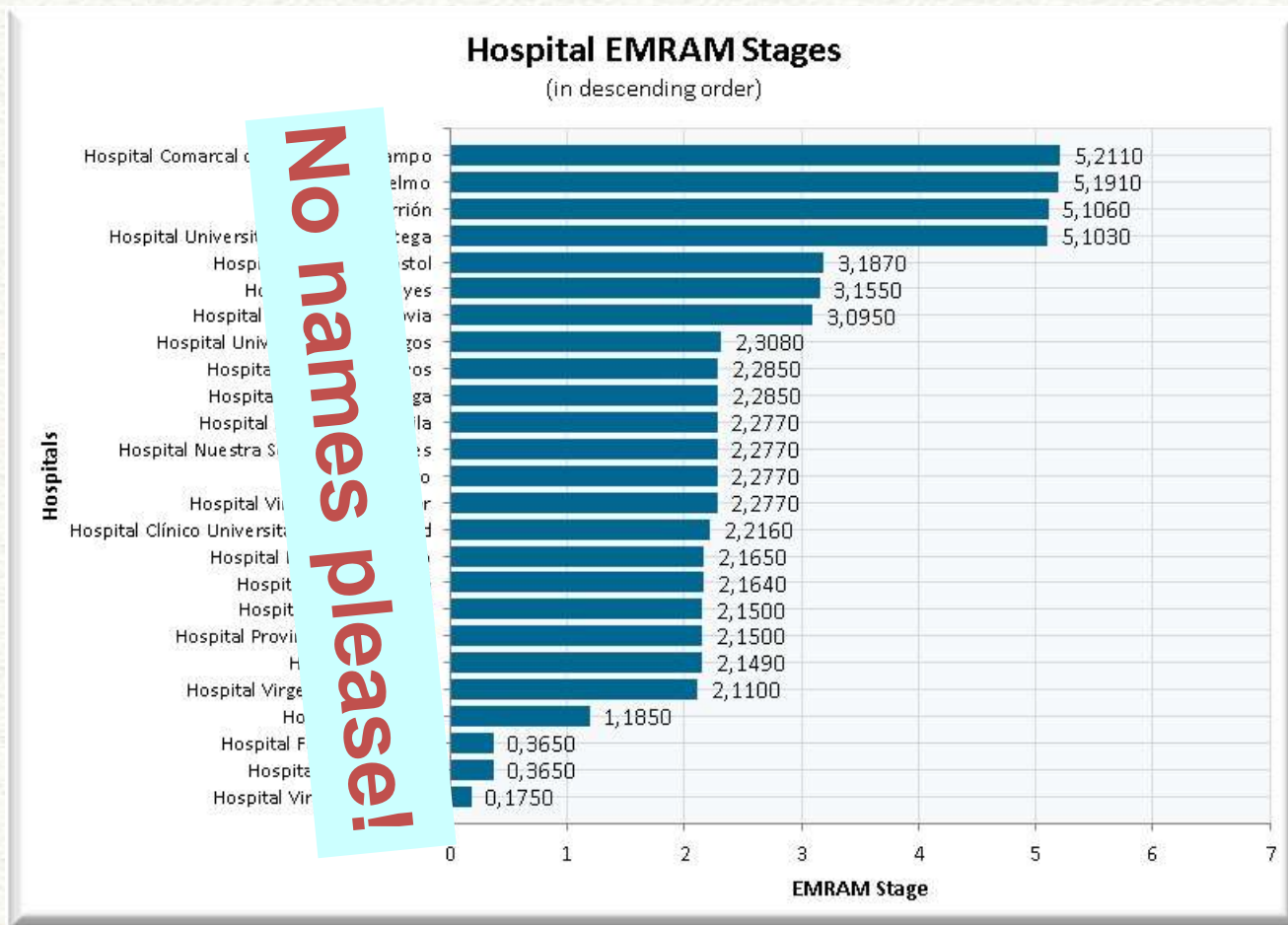
Grupo Estratificación	Region		Healthcare Facilities			
	Individuos	Individuos %	N. Contactos Primaria		N. Contactos Hospitalización	
G0. Sanos, no usuarios o procesos agudos no significativos	1.649.444	68,18%	6.706.138	33%	50.020	25%
G1. Una enfermedad estado estable - inicial	457.516	18,91%	6.489.350	32%	33.249	16%
G2. Crónicos/pluripatológicos estables - enf. avanzada	192.280	7,95%	3.866.433	19%	35.448	17%
G3. Crónicos/pluripatológicos complejos	120.056	4,96%	3.183.518	16%	85.215	42%



In the beginning

- 247 local DB in every Primare Care Center
- 14 Hospitals working isolated
- Different & excellent software developments for the same issue in different hospitals
- Poor levels of integration, coordination & strategy
- Lack of global goals in IT

EMRAM Score 18 months ago



Seed Projects. EMPI

- The purpose: Establish a system to provide the demographic identification traceability of any given patient who have or have had contact with the Regional Health Network
- An average of nine (9) million records were analysed. Duplications and correlations between different systems were identified and reported. A process of continuous improvement regarding uniqueness and semantic quality of the records were performed
- At present: the system is able to provide such information from any identifier, both health data and demographic detail

EMPI



Seed Projects. CDR + EMR

- Hospital EMR Self-developed. Based in OpenEHR
- Primary Care EMR Consolidation
- CDR to consolidate relevant clinical data from various clinical sources
- CDR integrate information from one patient to be shown to the clinicians. Universal Access.
- CDR as first step for professional & patient portals.



Seed Projects. Editing Policy

- State of the art
 - Terminology map “now”
 - Terminology map “goal”
- Terminology Server Implementation
- Editorial Policy Guide + Editing Processes



Terminology
Server

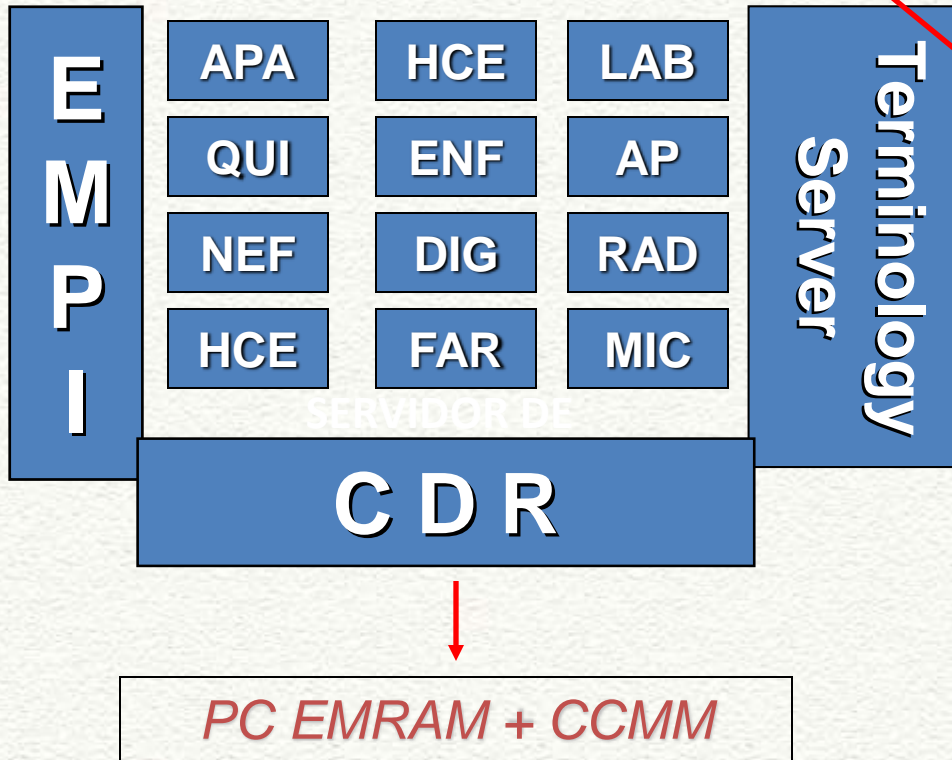
Other Projects Running

- Pharmacy, EMAR and prescribing
- Consolidation Nursing Applications
- Consolidation Pathology & launching Digital Pathology
- New Operation Theatre & Nephrology solutions
- Consolidating Intensive Care & Gastroenterology
- Infrastructure (From 16 to 2 CCR)

Engagement Projects

- Voice Recognition for every specialty
- Professional Social Network
- Automatic Coders in ICD-10 y SNOMED CT
- App for home care
- Primare Care offline for local surgeries
- Electronic Queuing in outpatient environments

Goal Scenario



European EMR Adoption Model	
Stage	Cumulative Capabilities
Stage 7	Complete EMR; CCD transactions to share data; Data warehousing feeding outcomes reports, quality assurance, and business intelligence; Data continuity with ED, ambulatory, OP.
Stage 6	Physician documentation interaction with full CDSS (structured templates related to clinical protocols trigger variance & compliance alerts) and Closed loop medication administration.
Stage 5	Full complement of PACS displaces all film-based images.
Stage 4	CPOE in at least one clinical service area and/or for medication (i.e. e-Prescribing); may have Clinical Decision Support based on clinical protocols.
Stage 3	Nursing/clinical documentation (flow sheets); may have Clinical Decision Support for error checking during order entry and/or PACS available outside Radiology.
Stage 2	Clinical Data Repository (CDR) / Electronic Patient Record; may have Controlled Medical Vocabulary, Clinical Decision Support (CDS) for rudimentary conflict checking, Document Imaging and health information exchange (HIE) capability.
Stage 1	Ancillaries - Lab, Radiology, Pharmacy - All Installed OR processing LIS, RIS, PHIS data output online from external service providers.
Stage 0	All Three Ancillaries (LIS, RIS, PHIS) Not Installed OR Not processing Lab, Radiology, Pharmacy data output online from external service providers.

Data from HIMSS Analytics Europe © 2011



Or Just the Beginning.....?

THANK YOU!
Gracias!

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